

Activity 01- Running Containers

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Pulling an Image

```
Command Prompt
REPOSITORY    TAG       IMAGE ID   CREATED   SIZE
C:\Users\Abby0803>docker pull ubuntu:16.04
16.04: Pulling from library/ubuntu
80bce60046fa: Pull complete
55a738a15540: Pull complete
e19cf0706c62: Pull complete
de4cdd6c27d1: Pull complete
Digest: sha256:9775877f420d453ef790e6832d77630a49b32a92b7bedf330adf4d8669f6600e
Status: Downloaded newer image for ubuntu:16.04
docker.io/library/ubuntu:16.04

C:\Users\Abby0803>docker pull ubuntu:16.10
16.10: Pulling from library/ubuntu
dca7be20e546: Pull complete
40bca54f5968: Pull complete
61464f23390e: Pull complete
d99f0bcd5dc8: Pull complete
120db6f90955: Pull complete
Digest: sha256:8dc9652808dc091400d7d5983949043a9f9c7132b15c14814275d25f94bca18a
Status: Downloaded newer image for ubuntu:16.10
docker.io/library/ubuntu:16.10

C:\Users\Abby0803>docker images
REPOSITORY    TAG       IMAGE ID   CREATED   SIZE
ubuntu        16.04     9ff95a467e45   3 weeks ago   135MB
ubuntu        16.10     7d3f705d307c   3 years ago   107MB

C:\Users\Abby0803>
```

```
C:\Users\Abby0803>docker rmi 7d3f705d307c
Untagged: ubuntu:16.10
Untagged: ubuntu@sha256:8dc9652808dc091400d7d5983949043a9f9c7132b15c14814275d25f94bca18a
Deleted: sha256:7d3f705d307c7c225398e04d4c4f8512f64eb8a65959a1fb4514dfde18a047e7
Deleted: sha256:d9db289b9342d9617596cd6ee3bba988629e24d9afa5db4e4b0e4e491c65007d
Deleted: sha256:a87725e8597b97f2399bc3aa50b0e2eec903b8ce19055668d3befb012918205c
Deleted: sha256:38cf10a2801529348366953e9b933d3524360dedc91d3e4d5d7f941da0c973c9
Deleted: sha256:61172966249d43026dbd017eec3a9575e37bddf8a269a9f09ecb559d7bfe7fef
Deleted: sha256:57145c01eb80040fdd0a24cde20af4788605b49593188d4f7efab099af89a08e

C:\Users\Abby0803>docker images
REPOSITORY    TAG       IMAGE ID   CREATED   SIZE
ubuntu        16.04     9ff95a467e45   3 weeks ago   135MB
```

Running out Container

```
C:\Users\Abby0803>docker run ubuntu:16.04 /bin/echo 'Hello world!'
'Hello world!'

C:\Users\Abby0803>docker ps
CONTAINER ID   IMAGE      COMMAND                  CREATED    STATUS    PORTS    NAMES
977b0dad8078   ubuntu:16.04  "/bin/echo 'Hello wo..."  49 seconds ago  Exited (0) 47 seconds ago  boring_kirch

C:\Users\Abby0803>docker run ubuntu:16.04 /bin/bash

C:\Users\Abby0803>docker ps -a
CONTAINER ID   IMAGE      COMMAND                  CREATED    STATUS    PORTS    NAMES
d7bba29e672e   ubuntu:16.04  "/bin/bash"             31 seconds ago  Exited (0) 29 seconds ago  blissful_carver
977b0dad8078   ubuntu:16.04  "/bin/echo 'Hello wo..."  About a minute ago  Exited (0) About a minute ago  boring_kirch

C:\Users\Abby0803>docker run -it ubuntu:16.04 /bin/bash
root@84b7c3dc7a4e:/# pwd
/
root@84b7c3dc7a4e:/# ls
bin boot dev etc home lib lib64 media mnt opt proc root run/sbin srv sys tmp usr var
root@84b7c3dc7a4e:/# exit
exit

C:\Users\Abby0803>docker run -d ubuntu:16.04 /bin/sleep 3600
d00db29f8c09e2ea3c1f47a0a3cb7b48e738621c1943e94145b81177e6b4e2e1

C:\Users\Abby0803>docker ps
CONTAINER ID   IMAGE      COMMAND                  CREATED    STATUS    PORTS    NAMES
d00db29f8c09   ubuntu:16.04  "/bin/sleep 3600"       8 seconds ago  Up 8 seconds                    epic_banzai
```

```
C:\Users\Abby0803>docker exec -it d00 /bin/bash
root@d00db29f8c09:/# ps aux
USER      PID %CPU %MEM    VSZ   RSS TTY      STAT START   TIME COMMAND
root         1  0.0  0.0   4372   644 ?        Ss   08:04   0:00 /bin/sleep 3600
root        7  0.1  0.0  18232  3288 pts/0    Ss   08:06   0:00 /bin/bash
root       18  0.0  0.0   34420  2868 pts/0    R+   08:06   0:00 ps aux
root@d00db29f8c09:/# exit
exit

C:\Users\Abby0803>docker ps
CONTAINER ID   IMAGE      COMMAND                  CREATED    STATUS    PORTS    NAMES
d00db29f8c09   ubuntu:16.04  "/bin/sleep 3600"       3 minutes ago  Up 3 minutes                    epic_banzai

C:\Users\Abby0803>docker stop d00d
d00d

C:\Users\Abby0803>docker ps -a
CONTAINER ID   IMAGE      COMMAND                  CREATED    STATUS    PORTS    NAMES
d00db29f8c09   ubuntu:16.04  "/bin/sleep 3600"       4 minutes ago  Exited (137) 11 seconds ago  epic_banzai
84b7c3dc7a4e   ubuntu:16.04  "/bin/bash"             7 minutes ago  Exited (0) 7 minutes ago  beautiful_beaver
d7bba29e672e   ubuntu:16.04  "/bin/bash"             8 minutes ago  Exited (0) 8 minutes ago  blissful_carver
977b0dad8078   ubuntu:16.04  "/bin/echo 'Hello wo..."  10 minutes ago  Exited (0) 10 minutes ago  boring_kirch
```

Removing Containers

```
C:\Users\Abby0803>docker ps -a
CONTAINER ID   IMAGE      COMMAND                  CREATED        STATUS              PORTS
RTS NAMES
d00db29f8c09   ubuntu:16.04  "/bin/sleep 3600"       4 minutes ago  Exited (137) 11 seconds ago
epic_banzai
84b7c3dc7a4e   ubuntu:16.04  "/bin/bash"            7 minutes ago  Exited (0) 7 minutes ago
beautiful_beaver
d7bba29e672e   ubuntu:16.04  "/bin/bash"            8 minutes ago  Exited (0) 8 minutes ago
blissful_carver
977b0dad8078   ubuntu:16.04  "/bin/echo 'Hello wo..." 10 minutes ago  Exited (0) 10 minutes ago
boring_kirch

C:\Users\Abby0803>docker rm d00d
d00d

C:\Users\Abby0803>docker run --rm ubuntu:16.04 /bin/echo 'Hello and goodbye!'
'Hello and goodbye!'

C:\Users\Abby0803>docker ps -a
CONTAINER ID   IMAGE      COMMAND                  CREATED        STATUS              PORTS
S NAMES
84b7c3dc7a4e   ubuntu:16.04  "/bin/bash"            12 minutes ago  Exited (0) 11 minutes ago
beautiful_beaver
d7bba29e672e   ubuntu:16.04  "/bin/bash"            13 minutes ago  Exited (0) 13 minutes ago
blissful_carver
977b0dad8078   ubuntu:16.04  "/bin/echo 'Hello wo..." 14 minutes ago  Exited (0) 14 minutes ago
boring_kirch

C:\Users\Abby0803>_
```